

January 12–13, 2024

Organized as an online conference by the Center for Environmental Research and Education, Duquesne University, the International Master of Environmental Sciences of the University of Cologne, the Institute of Biology Education of the University of Cologne, the Public Health Faculty, Southern Illinois University Carbondale, and the Institute of Environment Education and Research of Bharati Vidyapeeth University, Pune

Sustainability and an Equitable Energy Transition

17th Winter Meeting

The International Consortium
for Interdisciplinary Education
about Health and the Environment



Please register at:

<https://uni-koeln.zoom.us/meeting/register/tJEoc-iuqz0qE9FRa9HI7lkhq2TjAImm5qaA>

After registration you will receive the link for the online conference via zoom

Welcome!

The Winter Meeting of the International Consortium for Interdisciplinary Education about Health and the Environment is the result of a visionary idea conceived and spearheaded by Prof. Dr. Klaus Klein, now retired Professor of Biology and Didactics at the University of Cologne, in cooperation with Prof. Dr. Dale Ritzel and Prof. Dr. Robert McDermott, both now Professor Emeritus at Southern Illinois University Carbondale (USA), to bring together the fields of education, environmental sciences, and public health. Since its inception, this conference has engaged more than one-hundred scientists from six continents as well as more than a thousand students and other young scholars from throughout the hemispheres to bring diversity to scientific areas, while unifying an interdisciplinary commitment to abandon archaic and siloed towers of thought.

In addition to spawning the creation of an interdisciplinary journal – The Journal of Health, Environment & Education – this conference has addressed a plethora of themes in its lifetime, such as finding our common ground in health, environment, and education, bringing science into practice, seeking equity for planet earth, and how science should intervene in society, among many others. This year's theme – Sustainability and an Equitable Energy Transition – is sure to continue the time-honored tradition of international exchange and collaboration. Here in 2024, we welcome your participation and invite you to help us in furthering the dialogue in these areas of endeavor.

--- Members of the Conference Planning Committee

Program for January 12, 2024

Time Zone Cutline

Time Program



07:00–07:10
13:00–13:10
17:30–17:40

Welcome

07:10–07:40
13:10–13:40
17:40–18:10

Transforming the buildings sector – How to achieve climate neutrality by 2045?
– Dr. Sibylle Braungardt
Eco-Institute, Germany

07:40–08:10
13:40–14:10
18:10–18:40

Get out of the wake! – Challenges and opportunities for modern »wind farm flow control« strategies. Harnessing the Power of the North Sea: A Dive into Sustainable Energy Solutions, its promises, and pitfalls for the Ecosystem
– Prof. Dr. André Bresges* & Andreas Rott**
*Institute of Physics Education, University of Cologne; **ForWind – Center for Wind Energy Research, Germany

08:10–08:40
14:10–14:40
18:40–19:10

Harvesting Sunshine: Unlocking the Power of Green Hydrogen
– Prof. Dr. Dr. Sanjay Mathur
Institute of Inorganic and Materials Chemistry, University of Cologne, Germany

08:40–09:45
14:40–15:45
19:10–20:15

Student Presentations in Breakout Rooms
from Germany, India, the United States, and the International Master of Environmental Sciences

09:45–10:00
15:45–16:00
20:15–20:30

Coffeebreak

10:00–10:30
16:00–16:30
20:30–21:00

Climate Action for a More Just and Sustainable World
– Prof. Katharine Hayhoe
Texas Tech University and Chief Scientist for The Nature Conservancy, United States

10:30–11:00
16:30–17:00
21:00–21:30

Net Zero Scenarios: What Do (and Don't) They Tell Us?
– Prof. Marc Oliver Bettzüge
Institute of Energy Economics at the University of Cologne (EWI), Germany

11:00–11:05
17:00–17:05
21:30–21:35

Wrap Up

Program for January 13, 2024

Time Program

07:00–07:10
13:00–13:10
17:30–17:40

Welcome

07:10–07:40
13:10–13:40
17:40–18:10

Earth Observation for Climate Action and Sustainable Development
– Dr. Shirish Ravan
Former Head, United Nations Office of Outer Space Affairs
& currently Director DevTa Solutions



Time Zone Cutline

	Eastern US
	Germany
	India

<u>Time</u>	<u>Program</u> (continued)
07:40–08:55 13:40–14:55 18:10–19:25	Student Presentations in Breakout Rooms from Germany, India, the United States, and the International Master of Environmental Sciences
08:55–10:00 14:55–16:00 19:25–20:30	Coffeebreak & Poster Walk (presented by the students at the University of Cologne, Room 0.27, IBW Building)
10:00–10:30 16:00–16:30 20:30–21:00	Our Sustainable Future: Understanding Links Between Energy Choices, Emissions, and Climate Outcomes – Prof. Dr. Justin T. Schoof School of Earth Systems and Sustainability, Southern Illinois University, United States
10:30–11:00 16:30–17:00 21:00–21:30	Southwestern Pennsylvania’s Future: A Story of Air Quality and Sustainability – Dr. Matthew Mehalik Executive Director, Breathe Project, United States
11:00–11:05 17:00–17:05 21:30–21:35	Wrap Up

Organizing Committee

Prof. Dr. Hans G. Edelmann
– University of Cologne, Germany
h.edelmann@uni-koeln.de

Prof. Dr. Kirk W. Junker
– University of Cologne, Germany
kirk.junker@uni-koeln.de

Prof. Robert J. McDermott, PhD
– Southern Illinois University Carbondale, USA
robert.mcdermott@siu.edu

Prof. Dr. Shamita Kumar
– Bharati Vidyapeeth University, Pune, India
shamita@bvieer.edu.in

Dr. Meike Mohneke
– University of Cologne, Germany
m.mohneke@uni-koeln.de

Prof. Dale O. Ritzel, PhD
– Southern Illinois University Carbondale, USA
dritzel@siu.edu

Prof. Dr. Kirsten Schlüter
– University of Cologne, Germany
kirsten.schlueter@uni-koeln.de

Prof. John Stolz, PhD – Duquesne University
stolz@duq.edu

Conference Founders

Prof. Dr. Klaus Klein – University of Cologne, Germany
klaus.klein@uni-koeln.de

Prof. Robert J. McDermott, PhD – Southern Illinois University Carbondale, USA
robert.mcdermott@siu.edu

Prof. Dale O. Ritzel, PhD – Southern Illinois University Carbondale, USA
dritzel@siu.edu

